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5 NASAL RINSER AND OUTLET PORTION THEREFOR

The present invention relates to a nasal rinser and an outlet portion for a nasal rinser.

10 Rinsing of the nose alleviate and reduce troubles with allergies, infections and troubles after nose surgery since the rinsing flushes away allergens (allergy-forming substance), microbes (virus, bacteria), bi-products of the body (pus, mucus) and dust and soot particles. The
15 inflammatory swelling will be reduced and after nose surgery scabs will be loosened up, whereby the healing process will be accelerated. Rinsing of the nose with salt water is a well tried method and has been recommended by doctors for at least a hundred years.

20 The known nasal rinsers on the market are a potter container for multiple use, which is expensive, ungain and has a potter outlet, and two disposable variants which are prefilled with salt water and water from the Atlantic,
25 respectively, which of course become very expensive to use on regular basis and whose outlet do not function satisfactory and therefore neither their ability to fill up the nose and the fact that they can only be used with the salt water that is prefilled in the nasal rinser.

30 A first object of the present invention is to provide an outlet portion for a nasal rinser that quickly, comfortably and in a well functioning way may fill the nasal cavity with liquid.

35 A second object of the present invention is to provide an inexpensive, simple and well functioning nasal rinser for multiple use.

40 The first object is met by means of an outlet portion for a nasal rinser, which is characterised in that it comprises an outlet end, a connection end and nozzle-shaped channel

5 between these ends which shows a constriction and an expanded
outlet. The outlet portion has the advantage that the liquid
which is pressed in through the channel will leave the
channel under turbulent flow, whereby the liquid quickly
fills out the nasal cavity at the same time as a thin jet is
10 avoided that sprays directly on the mucous membrane of the
nasal cavity, which feels unpleasant.

The outlet portion preferably shows a circumference
increased portion, for example a droplet or balloon shaped
15 portion, at the outlet end so that the outlet portion seals
against the edges of the nostril irrespective of the size of
the nostril, which has the advantage that the liquid will not
leak out the wrong way and that the shape of the outlet
portion will help in opening up the nostril arch, which is
20 the most narrow portion of the nostril.

Preferably, the outlet portion is made of a flexible
material which is experienced as soft and comfortable against
the nose, such as silicone rubber.

25 The shape of the channel at the connection end of the
outlet portion is preferably adapted to the connection means
of the nasal rinser, for example conical with the largest
diameter at the end so that the outlet portion fits to a
30 syringe having a conical tip.

The second object is met by means of a nasal rinser which
is characterised in that it comprises an outlet portion of
the present invention and a syringe or a compressible balloon
35 for rinsing liquid, whereby the outlet portion is provided at
the tip of the syringe or the outlet opening of the balloon,
which is provided with connection means. A nasal rinser
according to any one of the two variants is simple and
inexpensive to manufacture and easy to use, especially the
40 syringe variant where it is easy to suck in the rinsing
liquid into the syringe before the nasal rinsing, and easy to
keep clean, especially the syringe variant.

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Of course, the outlet portion may be connected to any other type of nasal rinser means.

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The rinsing liquid may for example be salt water, an oil emulsion or salt water provided with a medicine.

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The present invention will now be described by exemplifying embodiments of the present invention together with appended drawings, in which:

Fig. 1 illustrates an embodiment of an outlet portion according to the present invention of a nasal rinser.

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Fig. 2 illustrates a first embodiment of a nasal rinser of syringe type according to the present invention.

Fig. 3 illustrates a second embodiment of a nasal rinser of balloon type according to the present invention.

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In Fig. 1 a outlet portion 1 is shown, which comprises an outlet end 2 and a connection end 3. Between these ends 2, 3 a channel 4 is arranged. The channel 4 is nozzle shaped and shows a restriction 5 in the cross section and an expanded outlet 6. At the connection end 3 the channel 4 has a shape which is adapted to the type of connection of the nasal rinser at which the outlet portion shall be arranged. In the shown case the channel 4 is conically shaped with the largest diameter in the connection end to fit to a syringe with a conically tapering tip, for example a monoject syringe.

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The outlet portion 1 has an outer shape that reminds of a lolly where the connection end 3 is the stick and the outlet end 2 is the lolly head. The outlet end 2 shows a circumference enlargement portion 12 which preferably is balloon or droplet shaped, whereby the outer diameter of the outlet portion increases from the outlet end 2 a distance

At use lukewarm rinsing liquid is drawn into the syringe 9 or the balloon 11 through negative pressure, whereby it is pressed out through the outlet portion 1 and further into the nose.